

# Learn About Passive RFID Technology vs Traditional Methodology

Explore how passive RFID transforms inventory and asset management. Understand why businesses shift from manual processes to smart technology for efficiency and accuracy.





# Traditional Inventory & Asset Management Challenges

## Manual Processes

Barcode scanning and paper logs cause frequent errors and delays.

## Time-Consuming

Audits and stock checks require significant labor and hours.

## Poor Visibility

No real-time tracking leads to lost items and inefficiencies.

## Limited Security

Traceability is weak, increasing risk of theft or misplacement.



# What is Passive RFID Technology?



## Battery-Free Tags

Activated by RFID reader signals with no internal power source.



## Cost-Effective

Ideal for large volumes with durable, maintenance-free tags.



## Extended Range

Scan up to 10 meters, even through obstacles or packaging.



# Passive RFID vs Traditional Methods

Feature	Traditional Method	Passive RFID
Tagging	Barcodes, labels	RFID tags (no battery)
Scanning	Manual, one-by-one	Automatic, bulk
Line of Sight	Required	Not required
Tracking	Periodic/manual	Real-time
Accuracy	Lower (manual input)	99%+ accuracy
Security	Minimal	High (tamper-evident tags)
Audit Time	Hours to days	Minutes
Labor Dependency	High	Low
Integration	Basic (ERP/manual)	Seamless (IoT-ready)

## TRADITIONAL BARCODE VS RFID SCANNING

### TRADITIONAL BARCODE SCANNING

- Requires line-of-sight scanning
- Scans one item at a time
- Higher error rates due to manual handling (approx.5%)
- Slower inventory updates



MANUAL,  
SINGLE SCAN

### RFID SCANNING

- No line-of-sight needed
- Scans multiple items simultaneously
- Much lower error rates (less than 1%)
- Real-time, automatic inventory updates



AUTOMATIC  
BULK SCAN

# Business Benefits of Passive RFID



Reduce Operational Costs



Save Time on Inventory & Audits



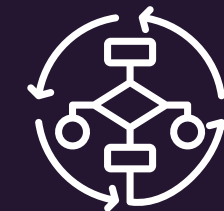
Enhance Asset Security



Gain Real-Time Visibility



Access Smart Data & Reporting



Automate Workflows & Alerts

# Applications Across Industries



**Warehousing &  
Logistics**



**Retail & Smart  
Inventory**



**Healthcare & Blood  
Banks**



**Fleet & Equipment  
Tracking**

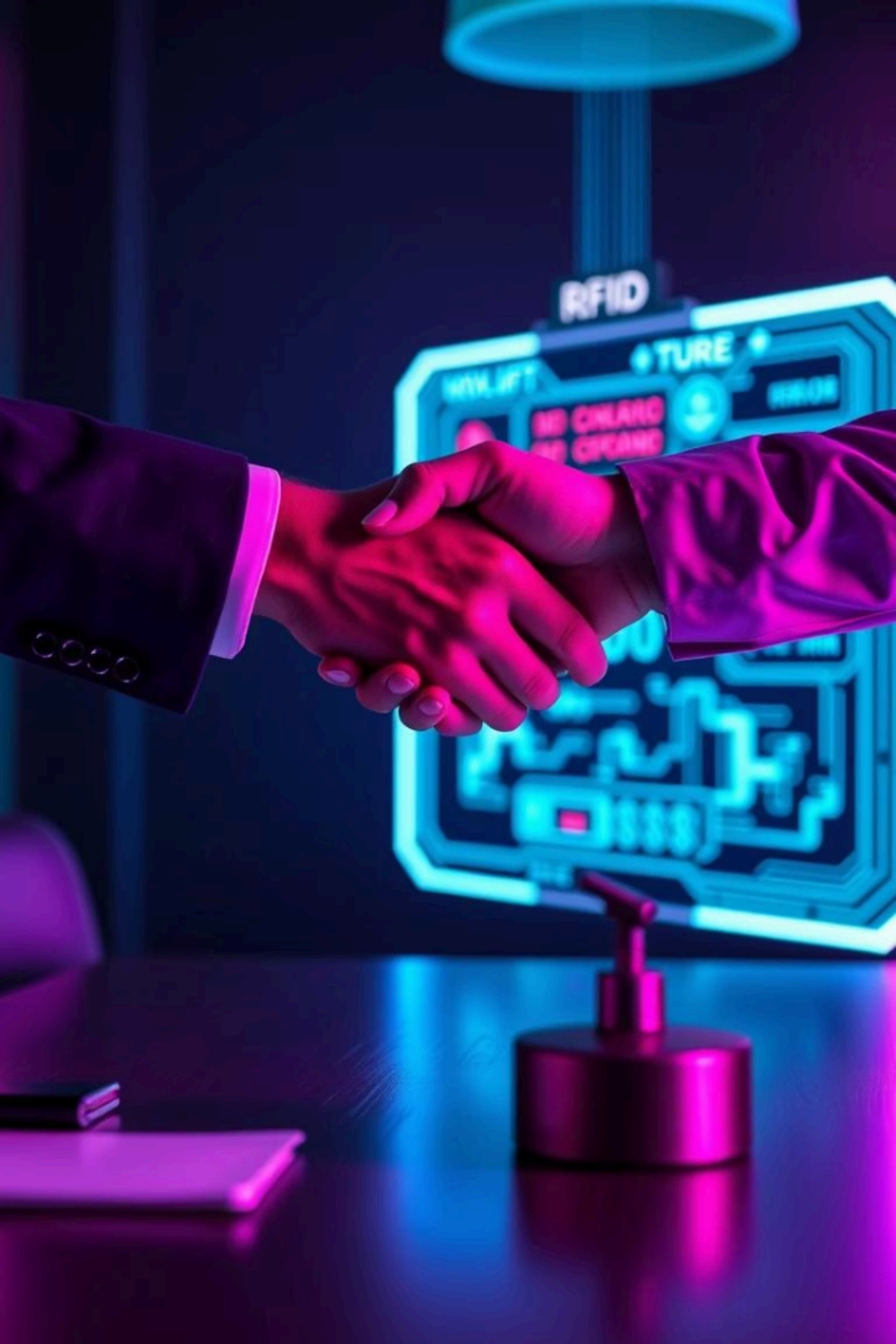


**Event Management &  
Access Control**



**Aviation (e.g., Life Vest  
Tracking)**





## Ready to Upgrade

Eliminate lost inventory and manual counting. Upgrade to passive RFID for faster, smarter operations. Contact us today to find your perfect RFID solution.